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Influence of nanosphere has different spacer arms on the reuse of glucose oxidase enzyme

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Since the rising of nanosphere in material science, its potential applications have attracted considerable attentions due to its mechanical, thermal, optical properties. Immobilization of enzymes onto polymericmicrosphere is the most useful strategy to improve the operational stability of biocatalysts without catalyst contamination. Glucose oxidase (GOx) is a commercially important enzyme which has application in pharmaceutical industry as a biosensor for the enzymatic determination of glucose in diabetes and the fermentation of liquor, and in the food industry for the removal of glucose and shelf life of various products. To investigate the effect of spacer arms on enzyme immobilization prepared nanosphere-polymeric support and glucose oxidase enzyme (GOx) immobilized on there.

Biography

Esin Antepli graduated in 2012 Chemistry Department of Gazi University. Her subject of graduation project is "Immobilization of Glucose Oxidase Enzyme" and with this subject she received Publication Promoting Award from TÜBİTAK. She is currently working on a Master's degree at Gazi University under the direction of Assoc. Prof. Dr. Nurşen SARI.

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